

### ABSTRACT OF THE DISCLOSURE

A pulse-type gas concentration measurement system and a method of pulse-type gas concentration measurement in a specific environment. When the sensor is located at  
5 a specific position, a variable pulse-modulated voltage is sent to the sensor, so that the sensor outputs a first signal to the processing device. The processing device compares the first signal to the chemical matter characteristics signals to determine the composition and  
10 concentration of respective constituents in the gas, and determines a detection voltage according to the first signal. Then, a square-wave pulse with the detection voltage is sent intermittently to the sensor, so that the sensor outputs a second signal to the processing device.  
15 The processing device compares the second signal to the chemical matter characteristics signal to determine the concentration variation of each respective constituent of the gas.